



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

ATTORNEY DOCKET NO. CONFIRMATION NO. FIRST NAMED INVENTOR APPLICATION NO. FILING DATE 7558 09/770,996 01/25/2001 Frederick A. Ware 1726.7219800 **EXAMINER** 7590 07/22/2004 THOMAS E. ANDERSON DANG, KHANH NMN **HUNTON & WILLIAMS LLP** PAPER NUMBER ART UNIT 1900 K STREET, N.W. WASHINGTON, DC 20006-1109 2111

DATE MAILED: 07/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applica	int(s)	
		09/770,996	WARE,	WARE, FREDERICK A.	
	Office Action Summary	Examiner	Art Uni	t	
		Khanh Dang	2111		
	The MAILING DATE of this communication ap	pears on the cover sh	eet with the correspor	ndence address	
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM					
 THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 					
Status					
1)⊠	Responsive to communication(s) filed on <u>17 May 2004</u> .				
2a)⊠	This action is FINAL. 2b) This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠ Claim(s) <u>1-39</u> is/are pending in the application.					
7/63	4a) Of the above claim(s) is/are withdrawn from consideration.				
5)	5) Claim(s) is/are allowed.				
	6)⊠ Claim(s) <u>1-39</u> is/are rejected.				
-	7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.2. Certified copies of the priority documents have been received in Application No					
2. Certified copies of the priority documents have been received in Application No3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) 🔲 Not	ice of References Cited (PTO-892)	4) 🔲 <u>in</u>	4) Interview Summary (PTO-413)		
2)	ice of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 er No(s)/Mail Date	8) 5) 🔲 N	per No(s)/Mail Date tice of Informal Patent Application (PTO-152) ner:		
LS. Patent and Trademark Office					

Art Unit: 2111

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 5, 6, 9, 17-21, and 23, and 33-38 are rejected under 35 U.S.C. 102(b) as being anticipated by Coyle et al.

It is first noted that similar claims will be grouped together to avoid repetition in explanation.

As broadly drafted, these claims do not define any structure/step that differs from Coyle et al. With regard to claims 6, 9, Coyle et al. discloses a system providing simultaneous bidirectional signaling using a bus topology, the system comprising: a first device (18/20 and SBI0 or MCU22, for example) operably coupled to a bus (SB12); a second device (IOP 1 or MEM 0) operably

Art Unit: 2111

coupled to the bus (SB12), the first device (18/20 and SBI0 or MCU22) transmitting a first portion of a first set of data to the second device (IOP 1 or MEM 0) and the second device (IOP 1 or MEM 0) transmitting a second portion of the first set of data to the first device (18/20 and SBI0 or MCU22) simultaneously during a first exchange slot (slot position); and a third device (IOP2 or MEM 1, for example) operably coupled to the bus (SB12), the first device (18/20 and SBI0 or MCU22) transmitting a first portion of a second set of data to the third device (SBI2 or MEM 1, for example) and the third device (SBI2 or MEM 1, for example) transmitting a second portion of the second set of data to the first device (18/20 and SBIO or MCU22, for example) simultaneously during a second exchange slot. With regard to claim 9, as explained above, the so-called "first device" and "second device" can be "memory controller" and "memory device." With regard to claims 1, 2, and 5, one using the device of Coyle et al. would have performed the same steps set forth in claims 1, 2, and 5. With regard to claims 17-21, and 23, the system of Coyle et al., as explained above, is also a "memory system." With regard to claims 33-38, one using the system of Coyle et al. would have performed the same steps set forth in claims 33-38. See above explanation regarding the rejected apparatus claims.

Claims 1-14, 17-39 are rejected under 35 U.S.C. 102(e) as being anticipated by Garleep et al.

It is first noted that similar claims will be grouped together to avoid repetition in explanation.

Art Unit: 2111

As broadly drafted, these claims do not define any structure/step that differs from Garleep et al. With regard to claims 6, 9, Garleep et al. discloses a system providing simultaneous bidirectional signaling using a bus topology, the system comprising: a first device (256, for example) operably coupled to a bus (a bi-directional bus comprising two bus lines 252, 254); a second device (262-1, for example) operably coupled to the bus, the first device (256) transmitting a first portion of a first set of data to the second device (262-1, for example) and the second device (262-1) transmitting a second portion of the first set of data to the first device (256) simultaneously during a first exchange slot; and a third device (262-2, for example) operably coupled to the bus, the first device (256) transmitting a first portion of a second set of data to the third device (262-2, for example) and the third device (262-2, for example) transmitting a second portion of the second set of data to the first device (256, for example) simultaneously during a second exchange slot. With regard to claim 7, see "time delay" in Garleep et al. With regard to claim 8, it is clear that in Garleep, the time delay is less than twice an end-to end propagation delay of the bus. With regard to claims 1-5, one using the device of Garleep et al. would have performed the same steps set forth in claims 1-5. With regard to claim 10, it is first noted that a statement of intended use such as "for providing simultaneous bi-directional signaling on a common bus" in a preamble of claim 10 has not been given patentable weight because it has been held that a preamble is denied the effect of a limitation where the claim is drawn to a structure and the portion of the claim following the preamble is a self-contained description of the structure not

Art Unit: 2111

depending for completeness upon the introductory clause. Kropa v. Robie, 88 USPQ 478 (CCPA 1951). In any event, Garleep et al. disclose device coupled to a bus in a bus topology capable of simultaneous bi-directional signaling, the device comprising: a driver (driver circuits, for example) capable of additive signaling (continuous/consecutive writes, for example), said driver circuit applying transmit signals to the bus (a bi-directional bus comprising two bus lines 252, 254); a receiver circuit (also receiver circuits Rx in Garleep et al.) operably coupled to the driver, the receiver circuit capable of effectively subtracting the transmit signals to receive received signals from the bus, the driver and the receiver circuit operating during an exchange slot. With regard to claim 11, the net impedance is equal to one-half of the loaded impedance. Therefore, the signals that emerge from the memory device I/O pins split at the local bus signal line with one-half of the signal voltage traveling towards the write buffer and half towards the read buffer. The signal that travels towards the write buffer terminates at the matched impedance of the passive terminator. With regard to claim 12, a terminator (also termination in Garleep et al.) operably coupled to the driver and the receiver circuit, the terminator providing a controlled termination impedance. With regard to claim 13, the transmitter circuit (Tx)/transmit buffers are readable as "transmit circuit." With regard to claim 14, note a plurality of buffers in Garleep et al. With regard to claims 24-32, one using the memory system of Garleep et al. would have performed the same steps set forth in claims 24-32. With regard to claims 17-23, the system of Garleep et al., as explained above, is clearly a "memory system." With regard to

Art Unit: 2111

claims 33-38, one using the system of Garleep et al. would have performed the same steps set forth in claims 33-38. See above explanation regarding claims 1-9. With regard to claim 39, see explanation regarding claims 1-9. It is also clear that scheduling is used for transmission between the first and second device, and the first and third device.

Claims 10-16, 24-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Borkar et al.

It is first noted that similar claims will be grouped together to avoid repetition in explanation. It is also noted that it has been held that the recitation that an element is "capable of" (claim 10, line 3, for example) performing a function is not a positive limitation but only requires the ability to so perform. It does not constitute a limitation in any patentable sense. *In re Hutchison*, 69 USPQ 138. It is also been held that the recitation that an element is "adapted to" (claims 14, 15, for example) perform a function is not a positive limitation but only reqrires the ability to so perform. It does not constitute a limitation in any patentable sense. *In re Hutchison*, 69 USPQ 138.

In any event, as broadly drafted, these claims do not define any structure/step that differs from Borkar et al. With regard to claim 10, it is first noted that a statement of intended use such as "for providing simultaneous bidirectional signaling on a common bus" in a preamble of claim 10 has not been given patentable weight because it has been held that a preamble is denied the effect of a limitation where the claim is drawn to a structure and the portion of the

Art Unit: 2111

claim following the preamble is a self-contained description of the structure not depending for completeness upon the introductory clause. Kropa v. Robie, 88 USPQ 478 (CCPA 1951). In any event, Borkar et al. discloses a device coupled to a bus in a bus topology capable of simultaneous bi-directional signaling, the device comprising: a driver (DRVA/DRVB, for example) capable of additive signaling (signal is periodically added to the bus), said driver circuit applying transmit signals to the bus (21, for example); a receiver circuit (receivers, not labeled) operably coupled to the driver, the receiver circuit capable of effectively subtracting the transmit signals to receive received signals from the bus (using impedance termination/differential amplifier for obtaining received signal), the driver and the receiver circuit operating during an exchange slot. With regard to claim 11, impedance matching is provided for drivers and receivers. With regard to claim 12, a terminator (impedance termination in Borkar, for example) is operably coupled to the driver and the receiver circuit, the terminator providing a controlled termination impedance. With regard to claim 13, the driver (DRVA/DRVB) circuits of Borkar et al. is readable as "transmit circuit." With regard to claim 14, the device of Borkar et al. also includes buffers (not labeled) or "a plurality of transmit buffers." With regard to claim 15, receiver circuit further comprises a comparator (the differential amplifier) operably coupled to the transmitter and to the driver and the receiver. With regard to claim 16, it is clear from the drawings and disclosure of Borkar et al. that the operations of the transmission system and receiver circuit must be enable by some circuit means

Art Unit: 2111

during exchange slot. With regard to claims 24-32, one using the memory system of Borkar et al. would have performed the same steps set forth in claims 24-32.

Claims 10-16, 24-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Ishibashi et al.

It is first noted that similar claims will be grouped together to avoid repetition in explanation. It is also noted that it has been held that the recitation that an element is "capable of" (claim 10, line 3, for example) performing a function is not a positive limitation but only requires the ability to so perform. It does not constitute a limitation in any patentable sense. *In re Hutchison*, 69 USPQ 138. It is also been held that the recitation that an element is "adapted to" (claims 14, 15, for example) perform a function is not a positive limitation but only reqrires the ability to so perform. It does not constitute a limitation in any patentable sense. *In re Hutchison*, 69 USPQ 138.

In any event, as broadly drafted, these claims do not define any structure/step that differs from Ishibashi et al. With regard to claim 10, it is first noted that a statement of intended use such as "for providing simultaneous bidirectional signaling on a common bus" in a preamble of claim 10 has not been given patentable weight because it has been held that a preamble is denied the effect of a limitation where the claim is drawn to a structure and the portion of the claim following the preamble is a self-contained description of the structure not depending for completeness upon the introductory clause. *Kropa v. Robie*, 88 USPQ 478 (CCPA 1951). In any event, Ishibashi et al. discloses a device

Art Unit: 2111

coupled to a bus in a bus topology capable of simultaneous bi-directional signaling, the device comprising: a driver (11a/b, for example) capable of additive signaling, said driver circuit applying transmit signals to the bus (3, for example); a receiver circuit (10a/b) operably coupled to the driver, the receiver circuit capable of effectively subtracting the transmit signals (by using "termination" in Ishibashi et al.) to receive received signals from the bus, the driver and the receiver circuit operating during an exchange slot (between 1a and 1b). With regard to claim 11, controlled impedance matching is provided for drivers and receivers. With regard to claim 12, a terminator (impedance control means is readable as a terminator) operably coupled to the driver and the receiver circuit, the terminator providing a controlled termination impedance. With regard to claim 13, the driver (11a/b) circuits of Ishibashi et al. is readable as "transmit circuit." With regard to claim 15, receiver circuit further comprises comparator or the differential amplifier, for example (the receiver of Ishibashi is a differential receiver) operably coupled to the transmitter and to the driver and the receiver. With regard to claim 16, it is clear from Ishibashi et al. that at least the clock controlling/generating circuit is readable as a so-called "enabling circuit." With regard to claims 24-32, one using the memory system of Ishibashi et al. would have performed the same steps set forth in claims 24-32.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2111

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3, 4, 7, 8, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Coyle et al.

Coyle et al. discloses the claimed invention except the turn around delay. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Coyle et al. with "turn around delay" between time slots, since the Examiner takes Official Notice that using a turn around delay between time slots are old and well-known for preventing data interference; and using such a "turn around delay" in Coyle et al. involves only routine skill in the art. With regard to claims 4 and 8, it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233. If Applicant chooses to properly challenge the Official Notice, supportive document(s) will be provided upon request.

Claims 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Garleep et al.

Garleep et al. discloses the claimed invention except the use of a comparator associated with a receiver for subtracting signal from as additive signals (continuous/consecutive writes, for example) to obtain a intended received signal. It would have been obvious to one of ordinary skill in the art at

Art Unit: 2111

the time the invention was made to provide Garleep et al. with a comparator, since the Examiner takes Official Notice that the use of a comparator for subtracting signal from as additive signals (continuous/consecutive writes, for example) to obtain a intended received signal for the receiver of Garleep et al. If Applicant chooses to properly challenge the Official Notice, supportive document(s) will be provided upon request. Note that at least the clock controlling/generating circuit of Garleep is readable as the so-called "enabling circuit."

Response to Arguments

Applicants' arguments filed 5/17/2004 have been fully considered but they are not persuasive.

At the outset, Applicants are reminded that claims subject to examination will be given their broadest reasonable interpretation consistent with the specification. *In re Morris, 127 F.3d 1048, 1054-55 (Fed. Cir. 1997)*. In fact, the "examiner has the duty of police claim language by giving it the broadest reasonable interpretation." *Springs Window Fashions LP v. Novo Industries, L.P.,* 65 USPQ2d 1862, 1830, (Fed. Cir. 2003). Applicants are also reminded that claimed subject matter not the specification, is the measure of the invention. Disclosure contained in the specification cannot be read into the claims for the purpose of avoiding the prior art. *In re Sporck*, 55 CCPA 743, 386 F.2d, 155 USPQ 687 (1986).

Ø

Application/Control Number: 09/770,996

Art Unit: 2111

With this in mind, the discussion will focus on how the terms and relationships thereof in the claims are met by the references. Response to any limitations that are not in the claims or any arguments that are irrelevant and/or do not relate to any specific claim language will not be warranted.

The Coyle et al. 102 rejection:

Applicant argued that "there is no support of Coyle et al. of any simultaneously transmission of data from a first device to a second device over a common bus." Contrary to Applicant's argument, in Coyle at al., the IOP1 or MEMO, for example, are "operably coupled" to the non-interlocked bus SB12 and transmit sets of data over the bus SB12 via I/O bus or MEM bus. In addition, Coyle et al., col. 4, lines 20-63, clearly discloses that "SB 12 is a synchronous, non-interlocked bus having a 64 bit data path and a 28 bit address path." A noninterlocked bus means that the sending and receiving nodes (or the so-called "first device" and "second device") are not locked together until the data transfer from one node (device) to another node (device) has been completed. The noninterlocked bus of Coyle et al. is a synchronous duplex bus. In another word, common bus SB 12 does not prevent operation (data transmission) of one device from interfering with another. Thus, in Coyle et al., it is clear that data can be transmitted both ways simultaneously within a bus cycle over a common bus. Note also that "operably coupled" does not require a direct connection. Note also that the "common bus" shown in Figs. 4-7 of the instant application has a plurality of paths. The system of Coyle et al. does not transmit data trough a plurality of

Art Unit: 2111

buses. Identical to what disclosed by the Applicant, the system of Coyle et al. transmits data over a common bus having a plurality of paths. In response to Applicant's argument regarding the method claims, it is clear that one using the apparatus of Coyles et al. would have performed the same steps set forth in the method claims, since the apparatus of Coyles et al. and the apparatus defined by the apparatus claims are identical, and the steps set forth in the method claims are clearly inherent.

The Garleep et al. 102 rejection:

Applicant argued that "Applicant reserves the right to claim priority to Garleep et al. or to swear behind the filing date of Garleep et al. under a 37 C.F.R. 1.131 Declaration. Therefore, Applicant submits that upon either action, Garleep et al. is not a proper reference and the rejections of claims 1-14 and 17-39 should be withdrawn." In response to Applicant's argument, since neither "action" has been taken, the rejection over Garleep et al. is maintained.

The Borkar et al. 102 rejection:

With regard to claim 10, Applicant argued that "Borkar et al. fails to show a driver configured to provide additive signaling; a receiver circuit operably coupled to the driver, the receiver circuit configured to effectively subtract the transmit signals to receive received signals from the bus, the driver and the receiver circuit operating during an exchange slot." Contrary to Applicant's argument, Borkar et al. discloses a device coupled to a bus in a bus topology

Art Unit: 2111

capable of simultaneous bi-directional signaling, the device comprising: a driver (DRVA/DRVB, for example) capable of additive signaling (in Borkar et al., signal is periodically added to the bus), said driver circuit applying transmit signals to the bus (21, for example); a receiver circuit (receivers, not labeled) operably coupled to the driver, the receiver circuit capable of effectively subtracting the transmit signals to receive received signals from the bus (using impedance termination/differential amplifier for obtaining received signal), the driver and the receiver circuit operating during an exchange slot (between core A and core B). With regard to claim 12, the impedance control means is readable as a terminator. In response to Applicant's argument regarding the method claims, it is clear that one using the apparatus of Borkar et al. would have performed the same steps set forth in the method claims, since the apparatus of Borkar et al. and the apparatus defined by the apparatus claims are identical, and the steps set forth in the method claims are clearly inherent.

The Ishibashi et al. 102 rejection:

With regard to claim 10, Applicant argued that "Ishibashi et al. fails to show a driver configured to provide additive signaling; a receiver circuit operably coupled to the driver, the receiver circuit configured to effectively subtract the transmit signals to receive received signals from the bus, the driver and the receiver circuit operating during an exchange slot." Contrary to Applicant's argument, Ishibashi et al. discloses a device coupled to a bus in a bus topology capable of simultaneous bi-directional signaling, the device comprising: a driver

Art Unit: 2111

(11a/b, for example) capable of additive signaling (it is clear that in Ishibashi et al., signal is periodically added to the bus), said driver circuit applying transmit signals to the bus (3, for example); a receiver circuit (10a/b) operably coupled to the driver, the receiver circuit capable of effectively subtracting the transmit signals to receive received signals from the bus, the driver and the receiver circuit operating during an exchange slot. With regard to claim 11, controlled impedance matching is provided for drivers and receivers. With regard to claim 12, a terminator (impedance control means is readable as a terminator) operably coupled to the driver and the receiver circuit, the terminator providing a controlled termination impedance. With regard to claim 13, the driver (11a/b) circuits of Ishibashi et al. is readable as "transmit circuit." With regard to claim 15, receiver circuit further comprises comparator or the differential amplifier, for example (the receiver of Ishibashi is a differential receiver) operably coupled to the transmitter and to the driver and the receiver. With regard to claim 16, it is clear from Ishibashi et al. that at least the clock controlling/generating circuit is readable as a so-called "enabling circuit." In response to Applicant's argument regarding the method claims, it is clear that one using the apparatus of Ishibashi et al. would have performed the same steps set forth in the method claims, since the apparatus of Ishibashi et al. and the apparatus defined by the apparatus claims are identical, and the steps set forth in the method claims are clearly inherent.

The Coyle et al. 103 rejection:

Art Unit: 2111

Applicant argued that "there has been no citation of any teaching anywhere in the art of any need for a implementing turn around delay." Contrary to Applicant's argument, the use of a "turn around delay" is old and well-known in the art as evidenced by at least Garleep et al., cited in the previous Office Action. Applicant also argued that there is no motivation for providing using such a "turn around delay" in Coyles et al. Contrary to Applicant's argument, the purpose of using a "turn around delay" is old and well-known in the art as evidenced by at least Garleep et al., cited in the previous Office Action.

The Garleep et al. 103 rejection:

Applicant argued that Garleep et al. is not a valid prior art under 35 USC 103(c). However, Applicant has not provided any evidence showing "the subject matter and the claimed invention were, at the time the invention was made, owed by the same person or subject to an obligation of assignment to the same person" (emphasis added). Therefore, the 103 rejection over claims 15 and 16 are maintained.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory

Art Unit: 2111

period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to Khanh Dang at telephone number 703-308-0211.

What Deny

Khanh Dang Primary Examiner